

ALIENWARE® M17x
COMPREHENSIVE SPECIFICATIONS

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Model: P01E

Type: P01E002

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COMPREHENSIVE SPECIFICATIONS

Computer Model

Alienware M17x-R2

Dimensions

Height (Front to Back)	51.31 mm to 53.59 mm (2.02 inches to 2.11 inches)
Width	405.89 mm (15.98 inches)
Depth	321.31 mm (12.65 inches)
Weight with 9-cell battery (starting at)	5.3 kg (11.8 lb)

NOTE: The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability.

Processor and System Chipset

Processor	Intel® Core™ i7 Intel Core i5
L2 cache	256 KB
L3 cache	up to 8 MB
Bus clock	133 MHz
System chipset	Mobile Intel PM55

Processor and System Chipset

SDRAM bus width	one or two 64-bit channels of DDR3 memory up to 1333 MHz
Processor address bus width	32 bits
Processor data width	64 bits
BIOS EPROM	16 Mbit
Graphics bus	PCIe x16 bus supporting x16 PCIe MXM 3.0 graphics cards
PCI bus	32 bits

Memory

Connectors	two internally-accessible SODIMM sockets
Capacities	2 GB and 4 GB memory modules
Memory types	DDR3 1067 MHz, 1333 MHz (dual-channel configurations)
Memory configurations possible	4 GB, 6 GB, and 8 GB

NOTE: DDR3 1333 MHz memory is supported only on computers with an Intel Core i7 processor.

ExpressCard

Interface	supports PCIe and USB 2.0
Connector	one 26-pin ExpressCard slot (54 mm)
Cards supported	ExpressCard/34 (34 mm) ExpressCard/54 (54 mm)

IEEE 1394/Media Card

IEEE 1394/Media Card controller	PCIe-based Ricoh R5U230
IEEE 1394 interface	compliant with standard IEEE 1394a-2000 specification

Ports and Connectors

IEEE 1394 A	one 4-pin serial connector
Network adapter	one RJ45 connector 10/100/1000 Mbps
USB	four 4-pin USB 2.0-compliant connectors
eSATA/USB combo	one 11-pin eSATA/USB combo connector
VGA	one 15-hole connector
DisplayPort	one 20-pin connector
HDMI	one 19-pin connector

Ports and Connectors

Audio	one microphone connector, three stereo headphone/speaker connectors
ExpressCard	one ExpressCard/54 connector
8-in-1 Media Card Reader	one combo connector
Infrared	one RC6 Consumer IR port

Communications

Network adapter	10/100/1000 Mbps Ethernet LAN on system board
Wireless	<ul style="list-style-type: none">WLAN Mini-Card (half Mini-Card slot)WPAN, Bluetooth® card (full Mini-Card slot)

Drives Supported

Optical drive	SATA-compliant Blu-ray Disc™ writer, Blu-ray Disc combo, or DVD+/-RW
Hard drives	two 2.5-inch drive bays supporting: <ul style="list-style-type: none">SATA-II or SATA-III hard drivesSolid-state hard drives

Media Card Reader

Cards supported	<ul style="list-style-type: none">▪ Secure Digital (SD) memory card▪ Secure Digital High Capacity (SDHC) card▪ Secure Digital Input/Output (SDIO) card▪ Multi Media Card (MMC)▪ Memory Stick▪ Memory Stick PRO▪ xD-Picture Card (type - M and type - H)▪ Hi Density-SD (SDHD)
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Video

Type	up to two MXM 3.0 Type B compliant cards with total power budget of 150 W
LCD interface	Low Voltage Differential Signaling (LVDS)
External display support	VGA, HDMI 1. 2, DisplayPort

Audio

Type	High-Definition 5.1 Surround Sound Audio
Controller	IDT 92HD73C HDA Codec

Audio

Speaker	dual 8-ohms speakers in both the left and right speaker assembly
Internal speaker amplifier	up to 5 W per channel; up to 10 W total power

Camera

Pixel	2.0 megapixel
Video resolution	320 x 240 - 1600 x 1200 (640 x 480 at 30 fps)
Diagonal viewing angle	66°

Keyboard (Backlit)

Layouts	U.S. and Canada; Europe; Japan
Backlight color	RGB; colors can be changed by invoking the AlienFX® application in the Alienware Command Center. For information, see the <i>Mobile Manual</i>

Display

Type	<ul style="list-style-type: none">▪ 17.0 inch, dual-CCFL, WXGA+ (1440 x 900)▪ 17.0 inch, dual-CCFL, WUXGA (1920 x 1200)▪ 17.0 inch, RGBLED, WUXGA (1920 x 1200)
Refresh Rate	60 Hz

Display

Operating angle	0° (closed) to 140°
Pixel pitch	
WXGA+	0.2550 mm
WUXGA	0.19125 mm
Controls	brightness can be controlled through keyboard shortcuts

Touch pad

X/Y position resolution (graphics table mode)	240 cpi
Width	71.7-mm (2.8-inches) sensor-active area
Height	34.0-mm (1.3-inches) rectangle

Battery

Type	9-cell "smart" lithium ion (86 Whr)
Height	41.54 mm (1.63 inches)
Width	292.7 mm (11.52 inches)
Depth	52.3 mm (2.06 inches)
Weight	0.52 kg (1.14 lb)
Voltage	11.1 VDC

Battery

Operating time	Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions.
Life span (approximate)	300 discharge/charge cycles
Temperature range	
Operating	0° to 50°C (32° to 122°F)
Storage	–20° to 60°C (–4° to 140°F)
Coin-cell battery	CR-2032

AC Adapter

NOTE: The 150 W AC adapter supports computers with a single graphics card and a non-Extreme Edition processor. Other configurations require the 240 W AC adapter.

Type	240 W	150 W
Input voltage	100-240 VAC	100-240 VAC
Input current (maximum)	3.5 A	2.1 A
Input frequency	50-60 Hz	50-60 Hz

AC Adapter		
Type	240 W	150 W
Output current (continuous)	12.31 A	7.7 A
Output power	240 W	150 W
Rated output voltage	19.5 VDC	19.5 VDC
Dimensions		
Height	25.4 mm (1.0 inches)	25.4 mm (1.0 inches)
Width	100 mm (3.94 inches)	76.2 mm (3.0 inches)
Depth	200 mm (7.87 inches)	154.7 mm (6.09 inches)
Weight (without AC power cord)	0.85 kg (1.87 lbs)	0.52 kg (1.14 lb)
Temperature range		
Operating	0° to 40°C (32° to 104°F)	0° to 35°C (32° to 95°F)
Storage	–40° to 70°C (–40° to 158°F)	–40° to 70°C (–40° to 158°F)
Connector types		
DC connector	3-pin, 7.4 mm plug	3-pin, 7.4 mm plug
AC connector	3-pin - C13	3-pin - C5

Computer Environment	
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)
Relative humidity (maximum):	
Operating	10% to 90% (non-condensing)
Storage	10% to 95% (non-condensing)
Maximum vibration (using a random vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Storage	1.3 GRMS
Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms halfsine pluse for storage):	
Operating	110 G
Storage	160 G
Altitude (maximum):	
Operating	–15.2 to 3048 m (–50 to 10,000 ft)
Storage	–15.2 to 10,668 m (–50 to 35,000 ft)
Airborne contaminant level	G2 or lower as defined by ISA-S71.04-1985